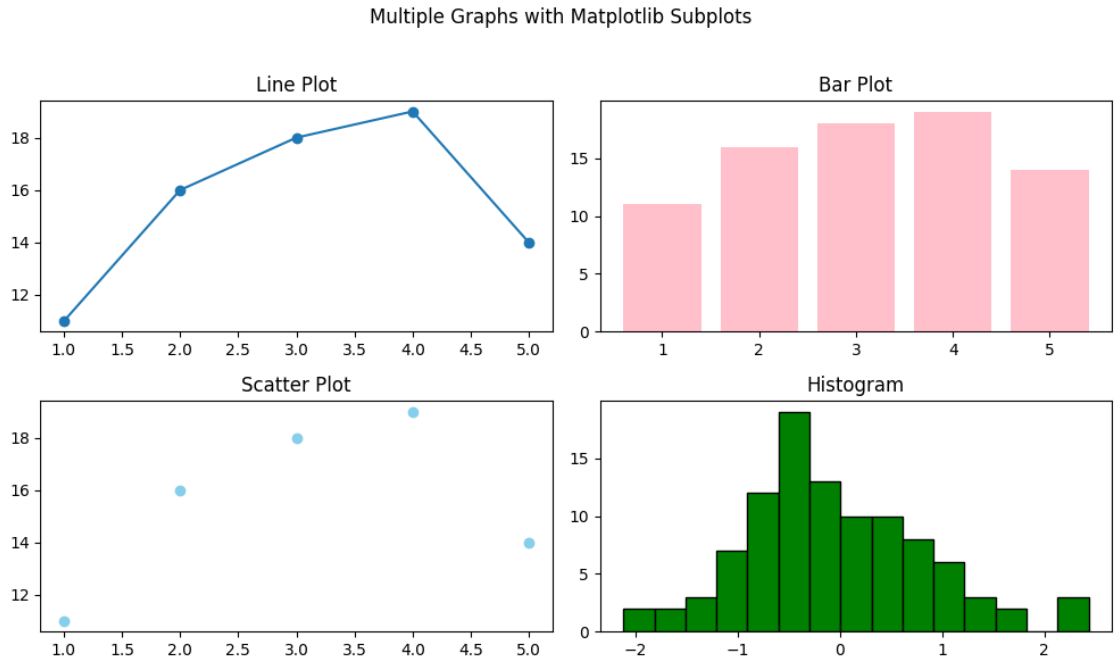
experiment-9

May 2, 2025

[3]:
```
import matplotlib.pyplot as plt
import numpy as np
```

[8]:
```
x = np.arange(1, 6)
y = np.array([11, 16, 18, 19, 14])
data = np.random.randn(100)
fig, axs = plt.subplots(2, 2, figsize=(10, 6))
 # Line plot
axs[0, 0].plot(x, y, marker='o')
axs[0, 0].set_title('Line Plot')
 # Bar plot
axs[0, 1].bar(x, y, color='pink')
axs[0, 1].set_title('Bar Plot')
 # Scatter plot
axs[1, 0].scatter(x, y, color='skyblue')
axs[1, 0].set_title('Scatter Plot')
 # Histogram
axs[1, 1].hist(data, bins=15, color='green', edgecolor="black")
axs[1, 1].set_title('Histogram')
fig.suptitle('Multiple Graphs with Matplotlib Subplots')
plt.tight_layout(rect=[0, 0, 1, 0.96])
plt.show()
```


Multiple Graphs with Matplotlib Subplots
Line Plot
Bar Plot
Scatter Plot
Histogram